

Ripped
from the
ROUNDUP

Ripped straight from the pages of old Space News Roundups, here's what happened at JSC on this date:

1 9 7 4

The Skylab 4 crew is home again after successfully completing man's longest journey into space – 84 days, 1 hour and 16 minutes.

William C. Schneider, Skylab program director, stated that because of the hard work of a great number of people, Skylab was able to achieve much more than was expected.

1 9 7 9

The year is 1990. A crew of technician astronauts is operating remote, automated construction equipment, assembling a solar power satellite at 400 miles above Earth. There is a glitch, and one beam does not line up correctly.

One astronaut puts on a pressure suit and climbs through the airlock into the payload bay. She reaches up, grabs a handrail and backs into a Manned Maneuvering Unit. After slipping the latches into the right slots, she releases a lever and flies to the construction site. She maneuvers the beam into place and returns to the orbiter to resume work.

Construction is still on schedule. The 250-pound MMU described above is in research and development stages today, planned to be a regular part of shuttle on-board equipment when the second orbiter is ready.

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Technicians at Kennedy Space Center this week began replacing heat shields around *Discovery's* main engine nozzles following final hook ups on three replacement high pressure oxidizer turbopumps. Final STS-29 launch preparations are expected to begin next week.

The launch of STS-29 from Kennedy's launch complex 39-B is targeted for about March 10. The final launch date will be announced following completion of the flight readiness review at KSC next Friday.

Prior to the review, the space shuttle main engine program will complete verification of a new process for building up the oxidizer pumps.

STS-88 space walks product of team effort

Three planned extravehicular activities and one contingency excursion were successfully conducted during STS-88 to begin assembly of the International Space Station.

The momentous effort that went into preparing for these space walks included many JSC organizations, NASA and the contractor community as well as collaboration across two countries.

The Mission Operations Directorate, the Space Station Program Office, the EVA Project Office and the Crew and Thermal Systems Division in the Engineering Directorate were some of the principal organizations involved in planning the required space walks, training the crews, building the mockups and the spacesuits for the training sessions in the Neutral Buoyancy Lab, and compiling, building and checking all necessary tools. These efforts began about two years prior to the flight.

As the lead STS-88 EVA engineer in MOD, Scott Bleisath directed the crew's space walk training for the flight, developed their procedures and their checklist, and worked with them in verifying their procedures. Other MOD EVA team members included EVA systems experts Dana Weigel and Barbara Severance and EVA task experts Wayne Wedlake and Karina Shook.

The STS-88 crew received 538 hours of EVA training, including 239 hours in the water at the NBL.

The EVA Integrated Product Team in the EVA Project Office was responsible for providing all necessary tools. Most of the



NASA Photo STS088-355-015

Astronaut Jerry Ross, STS-88 mission specialist, is pictured during one of three space walks which were conducted on the 11-day mission. Astronaut Jim Newman, mission specialist, recorded this image. Newman can be seen reflected in Ross' helmet visor. The solar array panel for the Russian-built Zarya module can be seen along the right edge.

tools were designed and built by the engineers in the Crew and Thermal Systems Division and their support contractors.

"We ensured that all of the tools flown on STS-88 would fit each other and that tools left on orbit would fit with those to be delivered in the future," said Jeff Dutton, STS-88 EVA IPT lead.

Tool extensions were left on orbit during the mission. IPT members verified that all of the interfaces that the hardware providers

build will fit the tools. Barbara Counts and Lori Crocker of the EVA Project Office and Hamilton Standard were instrumental in the accomplishment of these objectives.

All three scheduled EVAs were successfully conducted during STS-88. An additional contingency EVA was accomplished to deploy two of Zarya's Toru antennas. ■

**Poole, Harden
receive NASA-wide
recognition**

Two JSC employees have received the NASA Procurement Award for their outstanding achievement in procurement activity. This prestigious award from the Associate Administrator for Procurement is given annually to exceptional members of NASA's procurement work force. Connie Poole was selected as NASA Procurement Supervisor of the Year and Yolande Harden was selected as NASA Contract Specialist of the Year.

As manager of the Space Shuttle Acquisition Management Office, Poole was recognized for her outstanding procurement support of the space shuttle, shuttle upgrade, and Phase I programs at JSC. She was responsible for the formation of a cohesive team approach to the management of the Space Flight Operations Contract, NASA's largest contract which spans multiple centers and diverse areas within each center.



JSC photo S98-20391 by James Blair

Connie Poole, left, and Yolanda Harden display their NASA Procurement Awards.

Harden was recognized for her procurement expertise and the leadership skills she demonstrated as a contracting officer in meeting the challenging acquisition needs of the X-38 project. She served as the sole

acquisition representative on the multimillion-dollar X-38 De-Orbit Propulsion Module source evaluation board and at the same time maintained a separate, large workload of contracts. ■

TICKET WINDOW

Bldg. 3 Exchange Store hours are 7 a.m.-4 p.m. Monday-Friday.
Bldg. 11 Exchange Store hours are 9 a.m.-3 p.m. Monday-Friday.
For more information, please call x35350.

The following discount tickets are available at the Exchange Stores:

General Cinema Theaters	\$5.50
Sony Loew's Theaters	\$5.00
AMC Theaters	\$4.75
Moody Gardens (2 of 6 events)	\$9.75
Space Center Houston	adult \$10.25 . . . child (4-11)	\$6.50
(JSC civil service employees free.)		

All tickets are non-refundable.
Metro tokens and value cards are available.
The book fair will be held February 16-19 in Bldg. 3 cafeteria.

EAA events:

Tickets for the Houston Livestock Show and Rodeo are on sale now (limited seats and show performances).
Tickets are on sale for \$10.00 and \$19.00 for Grease on Ice, 2 p.m. February 28 (limited seats available).

